

FIG. 2

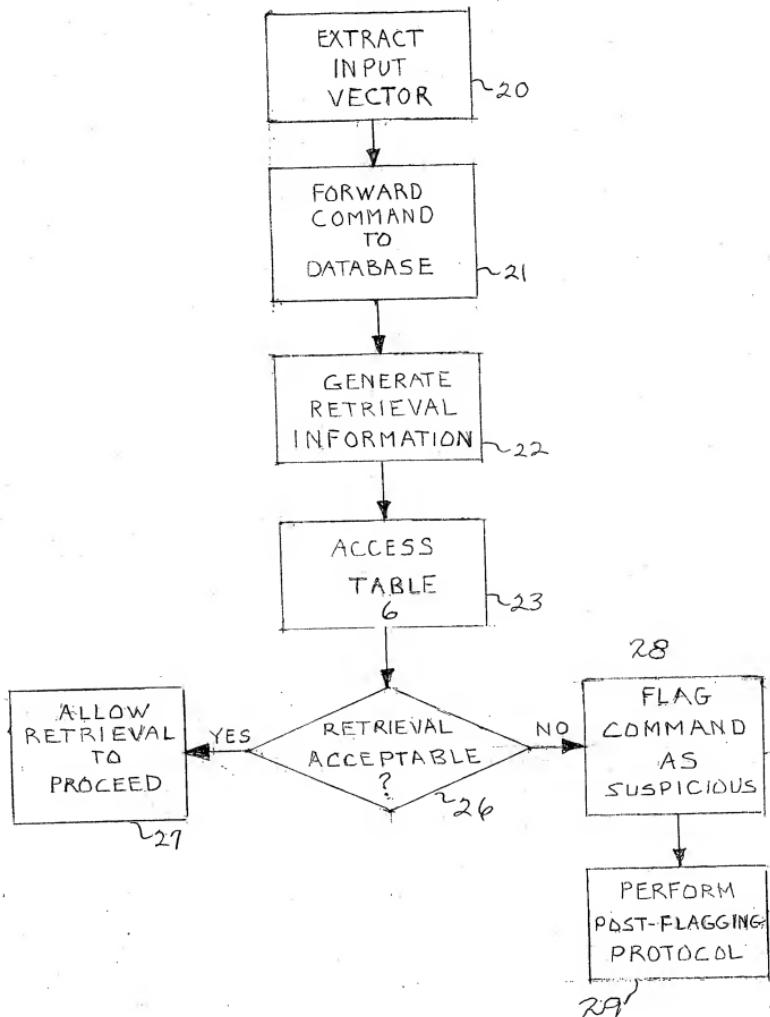


FIG. 3

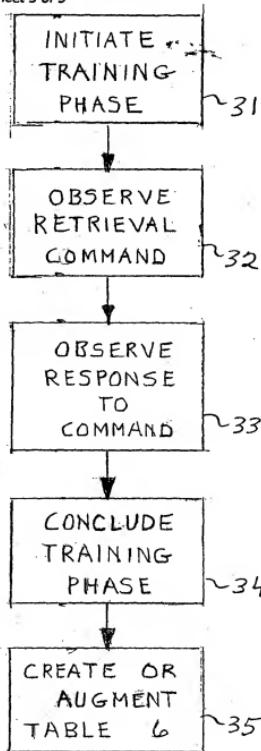


FIG. 4
FROM TRAINING PHASE

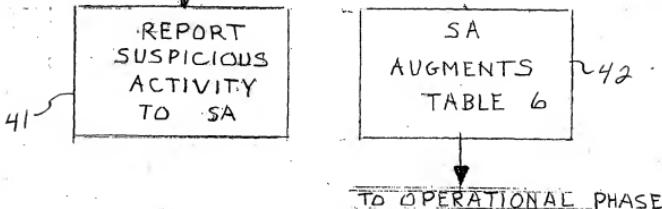


Fig. 5

ENTRY #	INPUT VECTOR	RETRIEVAL INFORMATION
1	PRESENT COMMAND	5 ROWS 3 COLUMNS COLUMNS A, J, AND K } RETRIEVAL VECTOR $S = 2000 \text{ ROWS/SECOND}$ $D = 2300 \text{ COLUMNS/SECOND}$
2	NONE	RATE OF RETRIEVING ROWS WAS 2000 ROWS/SECOND ACROSS ALL COMMANDS
3	$L_1 F_1 A_1$	RETRIEVAL VECTOR 1 5 ROWS, 3 COLUMNS - 9C3 OCCURRENCES RETRIEVAL VECTOR 2 7 ROWS, 2 COLUMNS - 51 OCCURRENCES $S = 1.1 \text{ ROW/SECOND}$ $D = 2.3 \text{ COLUMNS/SECOND}$

18

FIG. 6

ENTRY #	INPUT VECTOR	RULES
1	NONE	<p>RULE 5: NO MORE THAN 1000 ROWS/SEC. CAN EVER BE RETRIEVED BY ANYBODY</p>
2	$L_1 F_1 A_1$	<p>RULE 1: BETWEEN 4 AND 6 ROWS, AND BETWEEN 2 AND 4 COLUMNS ARE ACCEPTABLE</p> <p>RULE 2: BETWEEN 6 AND 8 ROWS, AND BETWEEN 1 AND 3 COLUMNS ARE ACCEPTABLE</p> <p>RULE 3: S BETWEEN 1.0 AND 1.2 IS ACCEPTABLE</p> <p>RULE 4: D BETWEEN 2.2 AND 2.4 IS ACCEPTABLE</p>
3	L_1	<p>RULE 6: NO RETRIEVALS ARE ALLOWED BETWEEN 6 P.M. AND MIDNIGHT UNLESS RULE 7 IS SATISFIED</p>
4	F_1	<p>RULE 7: D LESS THAN 10/MINUTE</p>